OVIVO

Roku ready®

55" ARES 4K UHD 120Hz LED TV

USER MANUAL

IMPORTANT SAFETY INSTRUCTIONS

1. Please carefully read and keep these instructions.
2. For your safety, please heed all warnings and follow all instructions.
3. Do not use the product, its components, or its accessories near water or any kind of moisture.
4. Clean the TV stand and frame only with dry cloth. Do not use any kind of liquid or chemical.
5. Do not block any ventilation openings on product.
6. Do not install or place product near any heat source and/or devices that produce excessive heat.
7. Only use attachments and/or accessories specified by the manufacturer.
8. Use only with the stand, bracket, or compatible display unit specified by the manufacturer, or sold with the product. If a mobile stand is used, exercise caution when moving in order to avoid injury.
9. This product should be operated only from a type of power source with the appropriate voltage range as indicated on the product itself. If you are unsure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
10. Do not overload wall outlets, extension cords, etc. as this can result in a risk of fire or electric shock.
11. Never insert objects of any kind into this product through openings other than the designated parts as they may touch dangerous voltage points or components that could result in fire or electric shock.
12. Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power cord or plug damage, contact with or exposure to liquids or moisture, objects having fallen into the product, product does not operate normally according to these operating instructions, product has been dropped, or product exhibits a distinct and/or sudden change in performance. If any of the following has occurred, unplug this product and refer servicing to qualified service personnel.

    Adjust only controls and/or modes according to the operating instructions, as an improper adjustment may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

13. When replacement parts are required, be sure the service technician has used parts specified by the manufacturer or those which have the same characteristics as the original part(s) being replaced. Unauthorized substitutions may result in fire, electric shock, or other hazards.
14. Upon completion of any service or repair to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
15. Use a wall mount bracket that has been listed by an independent laboratory (such as UL, CSA, ETL).
16. Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

THE OVIVO 4K UHD TV EXPERIENCE

US

Thank you for choosing OVIVO! This document will help you get the most out of your TV. Please take a moment to register your TV at: http://www.ovivo.tv

Simply follow these 3 STEPS to complete your OVIVO 4K UHD TV experience set up:

1. Now that you have made the best selection in LED TV technology, be sure to remove all accessories from the packaging before setting up your TV.
2. To experience the stunning detail of your OVIVO 4K UHD TV, you need access to High-Definition programming.
   - Upgrade your signal or content source to high-definition (4K) by contacting your HD service provider.
   - Bring the astonishing resolution of your OVIVO 4K UHD TV to life with a 4K Ultra HD Media Player. (Availability varies per region.)
   - Receive over-the-air HD broadcasts with a HD-quality antenna connected directly to the back of your TV. Visit **http://www.antennaweb.org** for more information on antenna selection and setup.
   - Discover the wealth of entertainment now available on super-high resolution Blu-ray Disc™ player and other HD equipment.
3. Install your TV and connect your sources. See Page 13 for sample connection diagrams. To ensure the highest quality is achieved for your 4K experience, please use HDMI (High-Definition Multimedia Interface) cables.

This TV displays all video input signals in a resolution of 3,840 X 2,160.

Owner's Record

The model and serial numbers are located at the side and rear of the TV. Record these numbers in the spaces provided below. Refer to them whenever you call upon your OVIVO dealer regarding any question of this TV.

Model Number:

_____

Serial Number:

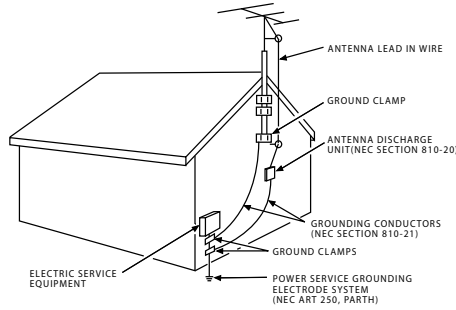
_____

IMPORTANT SAFETY INSTRUCTIONS

These servicing instructions are for use by qualified service personnel only. Do not perform any servicing other than that contained in this User Manual or other included instructions unless you are qualified and/or licensed to do so.

Outdoor Antenna Grounding /

If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT(NEC SECTION 810-20)
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
ELECTRIC SERVICE EQUIPMENT
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PARTH)

EXAMPLE OF ANTENNA GROUNDING
AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE

Located on the product and/or box is a triangular symbol containing a lightning bolt with an arrowhead. This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The graphic below indicates important operating and maintenance instruction in the literature accompanying the product. This equipment is a Class II or double insulated electrical appliance.

****CAUTION: DO NOT REMOVE COVER OR BACKING OF THE PRODUCT. THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.***

CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL

The lightning flash with arrow-head symbol,within an equilateral triangle,is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within a triangle presence of important operating and maintenance(servicing) instruction in the literature accompanying the product.

This equipment is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.

IMPORTANT INFORMATION

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH THE WIDER PRONG OF PLUG TO WIDE SLOT IN OUTLET. FULLY INSERT.

WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.

CAUTION: This product satisfies FCC Regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

DECLARATION OF CONFORMITY:

OVIVO 4K UHD LED TELEVISION, MODEL: ONU55MA67/ONU55MA67-SH

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC RELATED INFORMATION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

TRADEMARKS

- HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
- "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- ENERGY STAR® is a set of power-saving guidelines issued by the U.S. Environmental Protection Agency (EPA). ENERGY STAR is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practice.
- ROKU®, the ROKU Logo, ROKU READY®, the ROKU READY Logo, and STREAMING STICK™ are trademarks and/or registered trademarks of Roku, Inc. in the United States and other countries.
- MHL, the MHL logo are trademarks or registered trademarks or service marks of MHL LLC in the United States and other countries.
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The OVIVO 4K UHD TV Experience

Important Safety Instructions

Important Information

Trademarks

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CHAPTER 1. GETTING STARTED

Before setting up your TV

Protecting Against Power Surges

- Connect all components before you plug any power cords into the wall outlet or power strip.
- NEVER plug your TV into an outlet that is controlled by a wall switch.
- Turn off the TV before you connect or disconnect any cables.
- Make sure all antennas and cables are properly grounded. Refer to the "Important Safety Instructions" on page 2 for further information.

Safety Information

- Don't block ventilation holes on any of the components. Arrange the components so that air can circulate freely.
- If placing the TV in a cabinet or semi-closed structure, check for adequate ventilation behind and around the TV.
- Don't put weight on product after assembly. Only the TV screen may weigh on the accompanying stand.
- If connecting speakers and/or audio receivers etc.; do not place the elements too close to the TV. It is recommended that you arrange components far enough from the TV so that the possibility of heat from the product won't harm audio components.

Avoiding Audio Interference

- Position cables properly; insert each cable firmly into the designated jack.
- If placing components above the TV, route all cables to one side of the back of the TV instead of down the middle in order to ensure proper reception.
- If your antenna uses 300-ohm twin lead cables, do not coil the cables.
- Keep twin lead cables away from audio/video cables.

Avoiding Direct Light

Don't place the TV where excessive sunlight or interior lighting is directed towards the front screen. Use soft or indirect lighting to better ensure the life of your product.

Checking the accessories

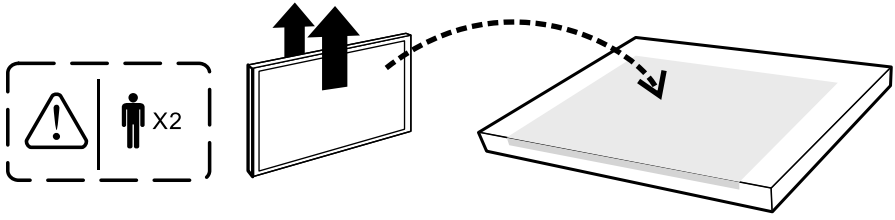
Check that the following parts are included with your product in addition to this User Manual.

- Remote Control x 1
- Size AAA Batteries x 2
- Quick Start Guide x 1
- User Manual x 1

- Warranty Card
- Base Stand x 1
- Base Stand Legs x 2 (Inside the TV Stand Box)
- Black Screw x 6
- Silver Screw x 6
- Power Cord
- ROKU® Streaming Stick™ (Roku Ready® Version) x 1

Attaching Your TV to the Stand

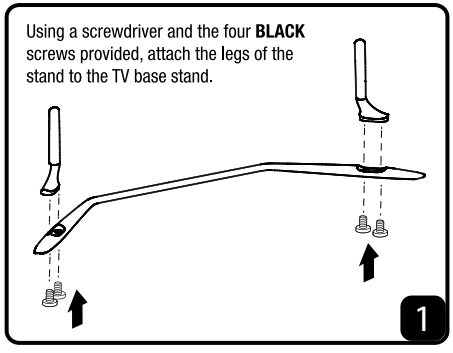
Your TV comes without the stand attached so that you can choose to mount your TV either to its stand or to a wall (wall mount not included.) If you want to mount your TV to the wall, don't attach the stand and instead, follow the "Mounting Your TV to the Wall" instructions on the next page.

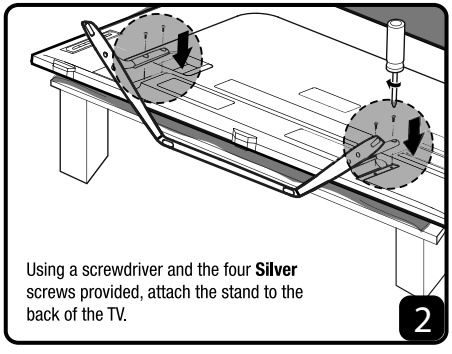


First, remove the TV bag and place it on a large, flat surface such as a table or countertop. Next, remove the TV screen itself from the carton and place it face down on the bag contained in the packaging or another suitable soft material. Be sure that the TV is level and face down to avoid scratching the screen.

Then follow the steps below:

Note: Keep the screws and parts away from grease and other liquids to avoid damage, especially during the assembly process.





Mounting Your TV to the Wall

If you are mounting your TV to the wall, do not attach the stand.

To mount your TV to the wall, purchase a VESA wall mount.	
Models of 55"	**Purchase a VESA 400 x 400**

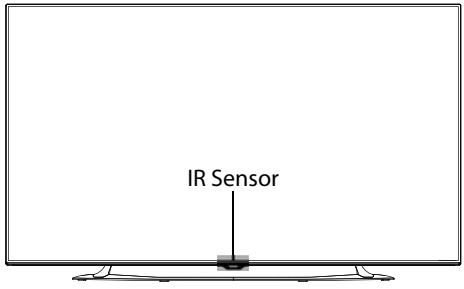
The VESA number is the horizontal and vertical measurement of the mounting holes. For example, 400x400 refers to the mounting measurements being 400mm horizontally and 400mm vertically.

Notes: Follow the directions included with the wall mount to mount the TV to the wall.

Caution: Your wall mount must be able to bear a minimum of five times the TV's net weight to avoid causing damage. Weight information can be found on the outside of the TV packaging or on our website.

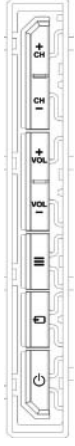
Guidelines for IR Remote Control

- Point your remote control directly at the IR sensor located on your TV.
- Make sure that no objects are blocking the path between the remote control and the IR sensor on your TV.
- If you are having problems with the remote control, reinsert or replace your batteries and make sure that they are correctly inserted.



Explanation of Buttons on TV

If you cannot locate your remote, you can use the buttons on the back of your TV.



CH+/- Selects channels stored in the channel list or acts as the up/ down navigation (▲/▼) through menu items.

VOL+/- Increases/decreases the volume or acts as the left/right navigation (◀/▶) through menu items. VOL+ also acts as the OK button when in the menu system.

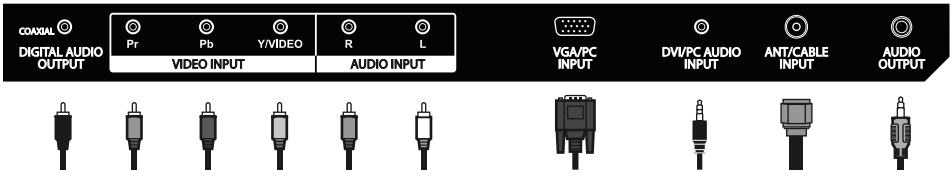
Brings up the TV's main menu.

Selects the signal source.

Turns the TV on or to standby mode.

Explanation of Jacks on TV

This section describes the jacks on the back of your TV. There are multiple ways to connect components.



DIGITAL AUDIO OUTPUT (coaxial): Use a digital coaxial cable to connect your TV to a compatible audio receiver.

VIDEO INPUT: Lets you connect a component that has component video jacks, such as a DVD player or digital cable box. (Green jack for Y/VIDEO connection, blue jack for Pb and red jack for Pr)

- **Pr, Pb, Y (Component Video):** Provides good picture quality because the video is separated into three signals. Use three video-grade or component video cables for the connection.

AUDIO INPUT: Lets you connect a component that has composite video jacks, such as a VCR, DVD player or digital cable box. Red and white jacks for R AUDIO and L AUDIO connection.

- **L/R AUDIO:** Provides left and right audio connection when using the CMPT VIDEO input. Red and white jacks for R AUDIO and L AUDIO connection.

  ****Note: AV IN and COMPONENT IN share the same L/R AUDIO and Y/Video input jacks.***

VGA/PC INPUT: Connect your computer or other component with a VGA output to this jack using a 15-pin, D sub cable.

DVI/PC AUDIO INPUT (used for DVI/PC only): Provides audio connection when using HDMI/ DVI INPUT 1 jack for DVI or when using PC VIDEO IN.

****Note: If using a DVI component, remember to connect the audio cable as DVI cable carry only the picture signal, not the sound.***

ANT/CABLE INPUT: Lets you connect a coaxial cable to receive signal from your antenna, cable, or cable box.

AUDIO OUTPUT: Allow you to connect headphones to listen to the sound produced from the TV.

HDMI 1 (4K/DVI IN) : Provides an uncompressed digital connection that carries both video and audio data by way of an integrated mini-plug cable. Since HDMI technology is based on Digital Visual Interface (DVI), the jack on the back of your TV is also compatible with DVI components.

HDMI 2 (4K) : Lets you connect a component, such as a digital cable box, with an HDMI output for the best picture quality.

HDMI 3 (4K) : Lets you connect a component, such as a digital cable box, with an HDMI output for the best picture quality.

HDMI 4 (MHL®) : Lets you connect a component, such as a digital cable box, with an HDMI output for the best picture quality. MHL® stands for Mobile High-definition Link, and allows you to link an MHL®-capable mobile device to the television.

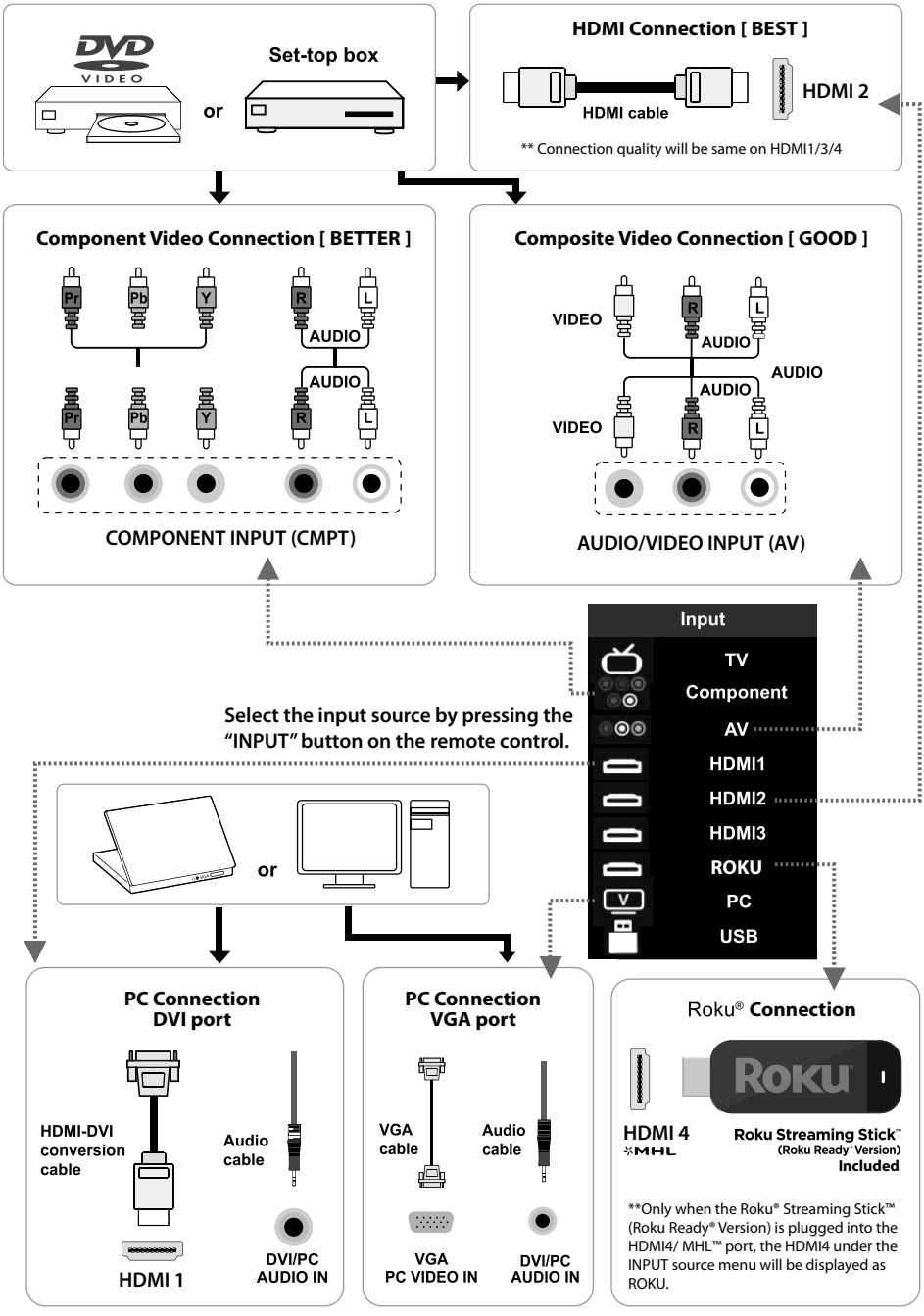
USB: Allows you to connect a compatible flash drive or storage device.

Choose Your Connections

There are several ways to connect components, such as DVD players and digital cable boxes, to your TV.

***Note: No cables are supplied with this unit. Please purchase the necessary cables separately. A high-speed HDMI cable is recommended for better compatibility.**

Input	*Signal Compatability*
Antenna/Cable	**480i, 480p, 720p, 1080i (NTSC, ATSC, and QAM formats)**
AV Video	**480i**
Component Video	**480i, 480p, 720p/60Hz, 1080i/60Hz**
HDMI1	**480i, 480p, 720p/60Hz, 1080i/60Hz, 1080p/60Hz, 3840×2160p/30Hz**
HDMI2	**480i, 480p, 720p/60Hz, 1080i/60Hz, 1080p/60Hz, 3840×2160p/30Hz**
HDMI3	**480i, 480p, 720p/60Hz, 1080i/60Hz, 1080p/60Hz, 3840×2160p/30Hz**
HDMI4	**480i, 480p, 720p/60Hz, 1080i/60Hz, 1080p/60Hz**
PC	**VGA, SVGA, XGA, SXGA, WXGA**


DVD
VIDEO
or
Set-top box
HDMI Connection [BEST]
HDMI cable
HDMI 2
** Connection quality will be same on HDMI1/3/4
Component Video Connection [BETTER]
Pr
Pb
Y
R
L
AUDIO
COMPONENT INPUT (CMPT)
Composite Video Connection [GOOD]
VIDEO
AUDIO
AUDIO/VIDEO INPUT (AV)
Input
TV
Component
AV
HDMI1
HDMI2
HDMI3
ROKU
PC
USB
Select the input source by pressing the "INPUT" button on the remote control.
or
PC Connection
DVI port
HDMI-DVI conversion cable
Audio cable
HDMI 1
DVI/PC AUDIO IN
PC Connection
VGA port
VGA cable
Audio cable
VGA PC VIDEO IN
DVI/PC AUDIO IN
Roku® Connection
ROKU
HDMI 4
MHL
Roku Streaming Stick™
(Roku Ready® Version)
Included
**Only when the Roku® Streaming Stick™ (Roku Ready® Version) is plugged into the HDMI4/ MHL™ port, the HDMI4 under the INPUT source menu will be displayed as ROKU.

MHL™ Function (Mobile High-definition Link)

You can use the following functions by connecting between the TV HDMI 4 (MHL) port and the USB port of mobile phones etc. with an MHL cable.

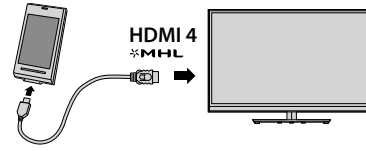
- Charge with mobile phone from TV
- Two-way remote operation between TV and mobile phone
- Video/Audio output from mobile phone

***Notes:**

- ***These functions may not be available depending on the connected equipment.***
- ***If there is no more battery life left in the connected device, charging may not start.***

Connecting MHL-compatible Device

- Connect the MHL-compatible device to the HDMI 4 (MHL) port on the TV using an MHL cable (not supplied), and charging will start automatically.
- When connecting MHL-compatible device to HDMI 4 (MHL) port on the TV, switch TV source to HDMI 4.



***Note:**

- ***Do not connect the MHL-compatible device to any port other than the HDMI 4 (MHL) port.***

When using MHL

- Interoperability with MHL devices of other manufacturers is not guaranteed.
- OVIVO does not provide any guarantee against operational failure such as that described below when an MHL source is connected to the TV:
  - No picture or sound
  - Some of the functions do not work by remote operation from the TV
- If the MHL connection does not work properly, contact the manufacturer of the source device for advice on its use.
- Do not disconnect the power plug of the TV when the TV is on and the MHL device is connected.
- Do not disconnect the power plug of the TV when the TV is in standby mode and the MHL device is connected.

Remote Buttons And Features

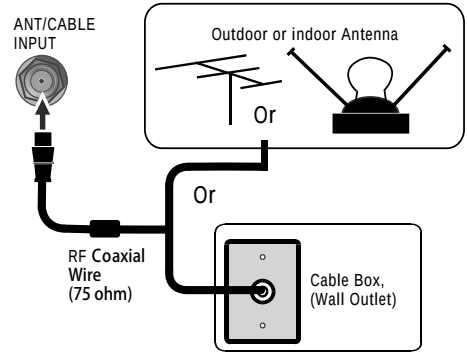
⏻	Turns the TV on or off.
INPUT	Press to choose and display a connected device.
0 - 9	Enters a channel number, then press **OK** (or let the entry timeout).
.	To enter a digital channel with a sub-channel, enter the main channel; then, press the dot (•), the sub-channel, and then the **OK** button.
MENU	Press to bring up the main menu or to return to the previous menu.
ROKU **▲/▼ ◄/► OK**	Press **▲/▼ ◄/►** to navigate in the Roku GUI and press **OK** to make selection.
	Highlights different items in the TV menu and adjusts the menu controls.
ZOOM+/-	Selects the desired screen format.
SLEEP+/-	Sets a time for UHD TV to power off after a designated amount of time.
ROKU BACK	Press to back one level in the Roku GUI.
	Press to return to a previous channel.
ROKU */INFO	Press for special function in the Roku GUI.
	If no menus are currently active, press ***/INFO** to show information.
PICTURE	Change between 6 picture display modes: Personal, Energy Star, Dynamic, Cinematic, Natural, and Sports.
VOL+/-	Increases or decreases the TV volume.
MUTE	Turns silent mode on or off.
FAV	Press the **FAV** button to browse the channels set in your favorite list. Use **▲/▼** to select one of the favorite channel to watch. Press **CLEAR** to exit the menu.
MEDIA	Opens up the USB menu.
GUIDE	Toggles the Electronic Programme Guide between on and off. Only available for digital channels.
CLEAR	Removes any menu or display from the screen and return to normal viewing.
ROKU ROKU ⌂	Launches Roku home menu. Choose from 1500+ streaming channels.
CH+/-	Navigates through channels.
TV	Press to access TV mode.
MTS	Press to adjust audio language if applicable.
ROKU ◄◄/►►/►II /■	These buttons can be used to play, pause playback, fast forward or rewind the video in the Roku GUI.
	Play and navigate through music or photos in the USB menu or other applicable device.

***Note: Most of the remote buttons are available when streaming movies, music by plugging the Roku ®Streaming Stick™ into the MHL™ port.**

Obtaining a Signal

The first step in connecting your TV is obtaining a signal. The back panel of your TV allows you to receive analog and/or digital channels by using the HDMI or ANT/CABLE INPUT connections. To obtain the best quality, use the HDMI connection.

Connect the outdoor aerial device to the ANT/ CABLE INPUT connection on the back of the TV to receive off-air channels. Use an HDMI connection to display the best picture and sound quality for input.



- If you have a digital cable box, you may need to call your cable company provider. They may recommend special cables to use to view digital channels.
- The aerial socket (75 OHM - VHF / UHF / cable) can be used for connecting an external antenna or other equipment fitted with a modulator (video recorder, etc.) We recommend that you do not connect another equipment to your TV initially, so as not to complicate the set-up procedure with the additional steps involved. Connect them once you have finished setting up channels.
- Visit www.antennaweb.org for help in deciding which type of antenna to use in order to receive the local channels available to you.

Switching On

Follow the instructions below on how to switch on your TV set and use the remote control before proceeding to following pages regarding channel scan procedure.

1. Insert two AAA batteries in the remote control.
   Precautions on using batteries:
   - Only use the battery type specified.
   - Make sure you use the correct polarity.
   - Do not mix new and used batteries.
   - Do not use rechargeable batteries.
2. Connect the power cord to the TV then plug it into a power outlet. Do not connect to an outlet with any kind of on/off switch.
3. When powered on, if the TV set is in standby mode, press ⏻ on the remote control or on the TV to turn on.

Switching Off

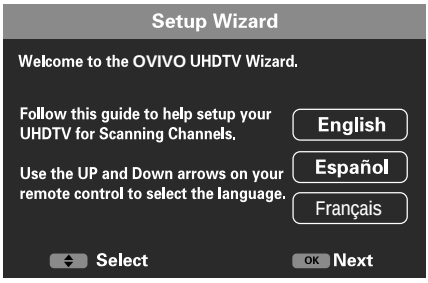
To put the TV into standby mode, press on ⏻ the remote control or on the TV. The TV set will remain powered up, but with low energy consumption. To disconnect power from the TV set, unplug the power cord from the power outlet.

Setup Wizard

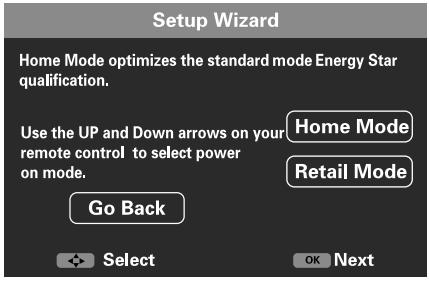
Perform the following steps before you press ⏻ on the remote control unit.

- Insert the batteries into the remote control unit.
- Connect the antenna cable to the TV.
- Plug in the power cord into an outlet.

The first time you switch the set on, the Setup Wizard will open, and guide you through the setup process.


Setup Wizard
Welcome to the OVIVO UHDTV Wizard.
Follow this guide to help setup your UHDTV for Scanning Channels.
Use the UP and Down arrows on your remote control to select the language.
English
Español
Français
Select
OK Next

1. The first step of the setup requires you to select your preferred language for the menu system. Press ▲/▼to select your language then press **OK** to enter the next screen.


Setup Wizard
Home Mode optimizes the standard mode Energy Star qualification.
Use the UP and Down arrows on your remote control to select power on mode.
Home Mode
Retail Mode
Go Back
Select
OK Next

2. A menu screen asks you to set the power on mode.
   - Choosing "Home Mode" for the TV assigns the optimal picture settings for most home environments.
   - Choosing "Retail mode", which is not ENERGY STAR® compliant, sets the unit up with predefined settings for retail displays. In this setting, the power consumption may exceed the requirements of the ENERGY STAR® qualification. Use ▲/▼to select the desired location setting ("Home Mode" or "Retail mode"); then press **OK** to continue to the next screen.

   Note: If you select "Retail Mode", a screen menu will display the option to return to the previous menu to select "Home Mode" by pressing ◄ to select Go Back and press OK to confirm, or select "Proceed" to proceed to the next screen.

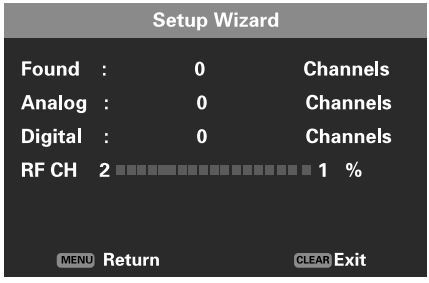
3. Use ▲/▼ to select the current local time zone. Press **OK** to continue to the next screen.
4. Select either "Antenna" or "Cable" as the channel scan type. Press **OK** to begin the channel scan process.

Note: Find out what kind of connection is made with your TV before selecting "Antenna" or "Cable".

5. The screen will change to show the progress of the channel scanning process; available channels will be stored in the TV's memory.

   Note: If you do not want to scan for channels at this time, you can press CLEAR or MENU to exit the scanning process, and perform the channel scan later in the "Settings" menu. If you are using a digital cable box and connected using the RF connection, you do not need to complete the Channel Scan. You can simply tune to channel 3 or 4 on the TV, then use the remote that came with your cable box.

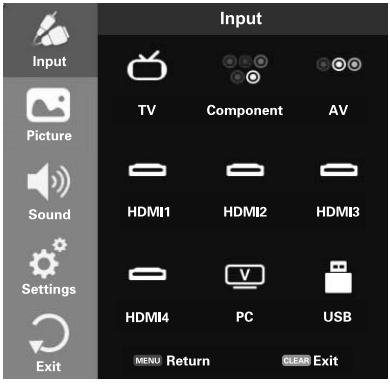
6. When the scanning is finished, the unit will display the first channel found.

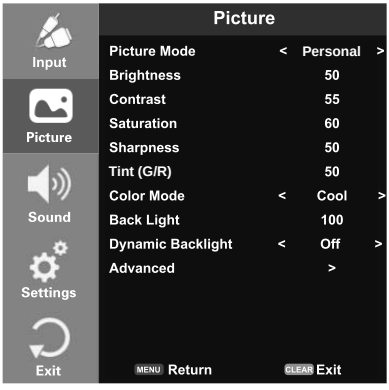


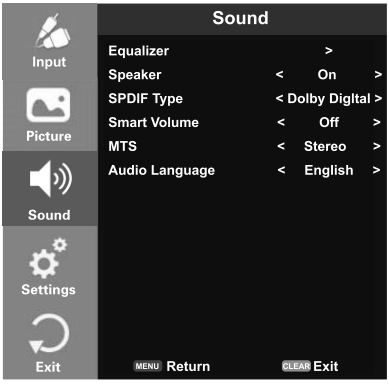
CHAPTER 2. MENU OPERATION

Menu Display

The following are illustrations of the menu display. Some menu items may not be displayed depending on the selected input source.

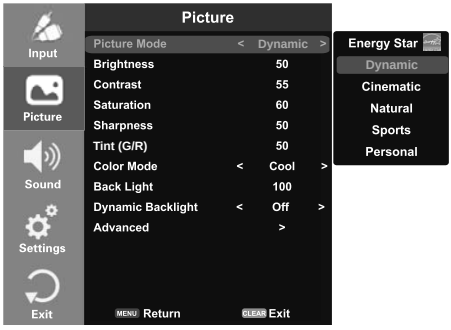






Using Menu System

This section explores the menus of your TV. Each menu is outlined and detailed to help you get the most from your TV. Example:



1. Press **MENU** to display the menu screen.
2. Press ▲/▼ to select the desired menu (selected item will turn to blue), then press **OK**/► to enter.
3. Press ▲/▼ to highlight a specific adjustment item, and then press ◄/► to set functions or change values.
   - Additional related adjustment items may be displayed. Press ▲/▼ ◄/► to select or adjust the desired item, and if necessary, press **OK** to confirm.
4. Press **MENU** to return to the previous menu or press **CLEAR** to close the menu.

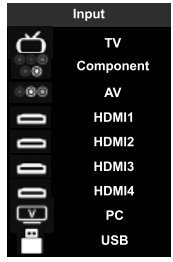
***Note: Operations vary depending on the function or item. Some menu items may not be displayed or may be displayed in grey (not selectable) depending on the selected input source.**

Input Menu

The "INPUT" menu allows you to select the input source.

Press **MENU** to display the menu screen. Press to select **INPUT**, then press **OK**/► to display options.

Press ▲/▼ ◄/► to select the desired input source: " TV / Component/ AV / HDMI1 / HDMI 2 / HDMI 3 / HDMI 4 / PC / USB ". Press **OK** to confirm.



***Note: When the Roku® Streaming Stick™ is plugged into the HDMI4/MHL port, the HDMI 4 on the input menu will be displayed as "ROKU".**

Picture Menu

The menus for adjusting the picture are used to obtain the best picture settings based on to your preference, the types of programs you watch, and the ambient lighting environment of your room.

To access the "Picture" menu, press **MENU** to display the menu screen. Press ▲/▼ to select "Picture", then press **OK**/► to display options.

Picture Mode

Displays a list that lets you select one of the preset picture settings: "Energy Star, Dynamic, Cinematic, Natural, Sports, Personal." Choose the setting that best suits your viewing environment.

***Note: "Energy Star" will set the TV to maintain energy levels qualifying as ENERGY STAR® compliant. Selecting other options may cause power consumption to change.**

Brightness

Adjusts the brightness of the picture.

Contrast

Adjusts the difference between the light and dark areas of the picture.

Saturation

Adjusts the richness of the color.

Sharpness

Adjusts the crispness of the edges in the picture.

Tint (G/R)

Adjusts the balance between the red and green levels.

Color Mode

Adjusts the color temperature: "Normal, Warm and Cool".

Backlight

Adjusts the backlight level. the menu line is grayed out by default. Only when "Dynamic Backlight" is set to "Off", canthe menu line can be adjustable.

Dynamic Backlight

This option automatically adjusts the brightness of the backlight according to the content of the incoming signal. "Dynamic Backlight" optimizes the picture quality and decreases power consumption.

***Note: When "Dynamic Backlight" is set to "Off", the power consumption may exceed the requirements of the ENERGY STAR® qualification.**

Advanced Settings

Zoom Mode: Selects the desired screen format. The screen format may vary depending on the incoming signal.

3DNR (Noise Reduction): This setting reduces picture "static" or any type of interference. This feature is especially useful for providing a clearer picture in weak analog signal conditions. Choose between these options:

Auto for automatic noise reduction adjustment.

Low for a softer, smoother picture that retains picture sharpness and detail.

Medium for a slightly softer picture than the Low setting.

High for an even softer, smoother picture than all other settings (the picture detail is somewhat reduced.)

Off for no adjustment.

Film Mode: Select "On" to automatically detect a film-based source. With this feature, the TV will analyze then recreate each still film frame for high-definition picture quality.

Game Mode: Select "On" to achieve best graphic effects and rendering speed when playing games.

MEMC Mode: This function provides more sharpness on moving pictures. Choose High level to keep the picture sharp at all times; however, very small details may fade a little at high speed. Choose Low or Medium levels to reduce the motion compensation. If Off is selected, this function is turned off.

Sound Menu

The "Sound" menu lets you adjust audio output. To access the "Sound" Menu, press **MENU** on the remote, and then use ▲/▼ to select "Sound". Press **OK**/ ► to enter. The following options will be displayed:

Equalizer

The equalizer allows you to adjust the audio frequency settings. You can select one of the five preset options or create a custom preset.

Sound Mode: Allows you to choose a specific sound preset: "Standard, Music, Movie, Sports and Personal".

Balance: Adjust the amount of audio transmitted through the left and right speakers. Generally, this option does not need to be modified.

Frequency Range: Choose a band and make adjustments. When making adjustments, the "Sound Mode" option automatically changes to "Personal." Press ▲/▼ to select the desired frequency (100Hz, 300Hz, 1.5KHz, 5KHz, 10KHz) you wish to adjust. Use ◄/► to adjust the level.

Speaker

Option "On/Off." When you select the "Off" option, the TV's built-in speakers will be turned off.

SPDIF Type

This option controls the type of audio stream sent to the Digital Audio Output jack (**SPDIF OUT**). Available options are "Dolby Digital®, PCM".

Smart Volume

Option "On/Off." This option reduces the annoying spike in volume that often occurs during commercial breaks, and also amplifies softer sounds in program material, eliminating the need for constant volume adjustment.

MTS

This option controls the manner in which the sound comes through your speakers. Available options vary according to the input selected.

*****Note: The MTS option is only available for analog channels.***

Mono (available for regular TV viewing only): This option plays the sound in mono only. Use this setting when receiving broadcasts with weak stereo signals.

Stereo: This option splits the incoming stereo audio signal into left and right channels. Most TV programs and recorded materials have stereo audio.

Second Audio Program (SAP): This option plays the program's audio in a second language, if available. SAP audio is broadcasted in mono only. SAP is also used to broadcast a program's audio with descriptions of the video for the visually impaired.

Audio Language

Choose from the list of languages available for the program you're watching. The language chosen becomes your preferred language for all digital channels until you turn the TV off. If the language chosen is not being broadcasted with a program, the TV plays the default language for the program (usually "English" in the US.)

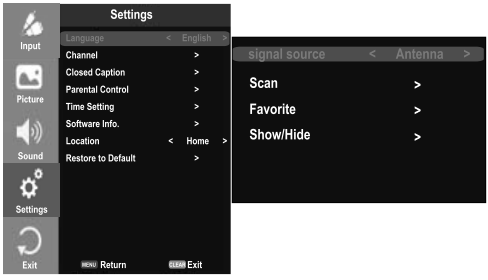
*****Note: The "Audio Language" option is only available for digital channels.***

Settings Menu

The "Settings" menu allows you to configure the TV to your preferences. Press **MENU** to display the menu screen. Press ▲/▼ to select "Settings"; then press **OK**/ ► to display the following options below.

Language

Select the menu language from English, Spanish, and French.



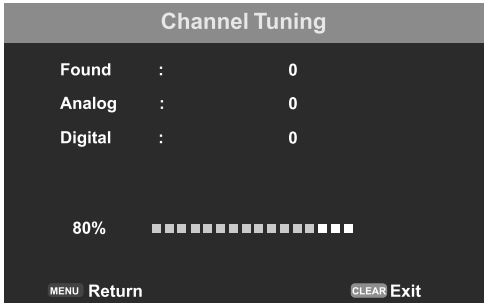
Channels

Signal Source: Choose the signal source ("Cable" or "Antenna") you have connected to the **ANT/ CABLE INPUT**.

Scan: When you perform a Channel Scan, your TV searches for channels with signals and stores the channel information in the Channel List. Then, as you watch TV and press **CH+** or **CH-**, your TV goes to the next or previous channel in the Channel List and skips the channels that do not have signals. If the TV signal source changes – for example, if you change from an outdoor antenna to cable TV – you will need to rescan for channels.

To automatically scan for channels:

1. After choosing a signal source, select **Settings** > **Channel** > **Scan**.
2. Press **OK**/ ► to start the scan. You can see the search progress and how many channels are found in the on-screen menu. **Note: If you wish to stop the search, press the **CLEAR** button.



3. After the scan is complete, press **MENU** to return to the previous menu, or press **CLEAR** to close the menu.

Favorite:

1. Select Settings > Channel > Favorite, press **OK**/ ► to enter, a list of available channels displayed.
2. Press ▲/▼ to select the desired channel, then press **OK** to set it as a favorite, and a heart icon will appear to the right side of the channel indicating this channel has been stored in the favorite channel list.
3. Set other favorite channels as desired.
4. You can easily select the favorite channel to watch using **FAV** and ▲/▼ buttons.

Show/Hide: You can hide channels in the Channel List. Then, when you press the **CH+** or **CH-** button, the TV will skip the hidden channels. You can still access these hidden channels by pressing the number of the channel into the numeric keypad.

To hide specific channels:

1. Select "Show/Hide", press **OK**/ ► to open the submenu.

2. Press ▲/▼ to highlight the channel you wish to hide; then press **OK** to select the highlighted channel. You can add the channel back into the Channel List by highlighting it and un-checking it.

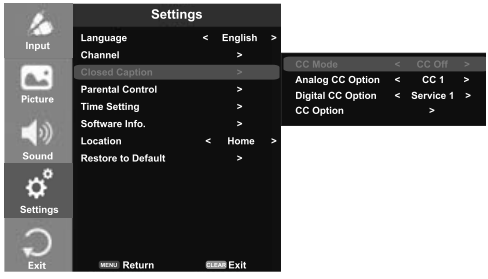
3. Repeat the process to hide additional channels.

4. Press **MENU** to return to the previous menu, or press **CLEAR** to close the menu.

DTV Signal: Show the condition of DTV signal: Good or Bad, Normal. Bad for no DTV signal or very weak DTV signal.

Closed Captioning

Many programs are encoded with closed captioning (or CC) information, which allows you to display the audio portion of a program as text on the TV screen.



Note: CC settings are not available for HDMI, CMPT or PC inputs. These settings must be set in the connected component's menu. CC is not available on all channels at all times. Only specific programs are encoded with closed captioning information.

The closed captioning options are:

CC Mode: This option allows you to choose the way closed captioning information appears on the screen.

CC Off - No captioning displayed.

CC On - Chooses this option if you want captioning to be shown whenever available.

On When Mute - This option allows the closed captioning to display (when available) whenever the TV's sound is muted. The captioning information is not displayed when the sound is not muted.

Analog CC Option: This option lets you select the captioning mode (CC1-CC4 or TEXT1-TEXT4) used for displaying caption information, when available. If you are unsure of the differences between the modes, you may prefer to leave the closed captioned mode set to CC1, which displays complete text of the program in the primary language in your area.

Digital CC Option: If available, this allows you to select a closed captioning service mode (1-6) for digital channels.

CC Option

Mode - Select either "Default" or "Custom" options. "Custom" mode allows you to set the options below.

Font Style - Allows you to choose a character design for the CC text. A font is a complete assortment of letters, numbers, punctuation marks, etc. in a given design. You can choose from a variety.

Font Size - Allows you to set the size of the CC text.

Font Edge Style - Allows you to set edge style of the CC text.

Font Edge Color - Allows you set the color of the CC text edge.

FG Color - Allows you to set the color of the CC text.

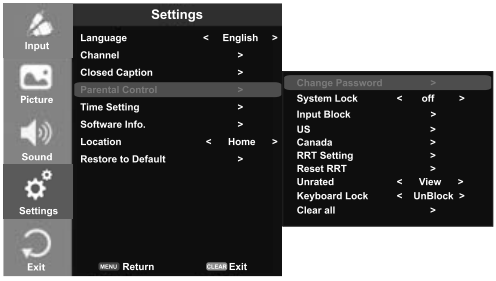
BG Color - Allows you to set the color of the area of the screen behind the CC text.

FG Opacity - Allows you to set the appearance of the CC text.

BG Opacity - Allows you to adjust the intensity of the BG Color behind the CC text.

Parental Control

The choices in the US V-Chip and Canada V-Chip menus involve software inside your TV, referred to as V-Chip, which allows you to block TV programs and movies. TV programs can be blocked by age-based ratings, such as



TV-MA. If available, TV programs can also be blocked by content, such as adult language (L). Movies can only be blocked by age-based ratings. Once you block programs, you can unblock them by entering a password. By default, the software inside your TV is turned off or unlocked.

The V-Chip is the component which reads the program's age-based rating (TV-MA, TV-14, etc.) and content themes (Violence (V), Adult Language (L), etc.). If you have blocked the rating and/or content themes that the program contains, you will receive a message indicating the channel is currently blocked. Change the channel or to enter your password and temporarily deactivate the parental controls.

Broadcasters are not required to provide content themes, so programs received with no content themes are blocked only if you block age-based ratings. You can also block programs that are considered unrated.

Change Password

The first time you enter the Parental Control menu, you must enter the default password 0000 to adjust other parental control settings. Then set your individual password:

1. Select "**Parental Control** > **Change Password**", press **OK**/ ► to enter.

2. Use the number buttons to enter the four-digit number for your password.

3. Re-enter the same code to confirm the password.

*****Note: The password must be entered before the TV will continue with Parental Control settings next time. The master password is 2458. If you forget your password, enter this to override any existing password.***

System Lock

You must remember to set "System Lock" to On mode to have the following parental lock settings to take effect.

Input Block

1. Select "**Parental Control**" > "**Input Block**", press **OK**/ ► to display the Input source list screen.

2. Press ▲/▼ to select an input source, and press ◄/► to block or unblock the input. When you tune to the blocked input, you must enter the password to view it.

US

Before proceeding, you may need to switch INPUT to "TV" in order to continue. At "US", press **OK**/ ► to display submenus:

US V-Chip TV Ratings

You can automatically block all program ratings above a specified age-based rating level.

1. Select "**Parental Control** > **US** > **TV Rating**", press **OK**/► to enter the US TV Ratings screen. In the US TV Ratings panel, you can customize the program blocking of the following TV ratings:

TV-Y	All Children
TV-Y7	Children 7 years old and older
TV-G	General audience
TV-PG	Parental guidance suggested
TV-14	Parents strongly cautioned
TV-MA	Mature audience only

You can also customize the TV ratings for the following content labels:

D	Suggestive or sexual dialogue
L	Adult language
S	Sexual situations
V	Violence
FV	Fantasy violence

2. Press ▲/▼◄/► to navigate through the TV rating options. Press **OK** to block or unblock it.

US V-Chip Movie Ratings (MPAA)

You can automatically block all program ratings above a specified age-based rating level.

1. Select "**Parental Control** > **US** > **MPAA**", press **OK**/► to enter the US Movie Ratings screen. In the US, Movie Ratings panel, you can customize the program blocking of the following movie ratings:

G	General audience
PG	Parental guidance suggested
PG-13	For children under 13
R	For children under 17 requires accompanying parent or adult guardian
NC-17	No one under 17 permitted
X	Mature audience only

Canada English or French V-Chip Ratings

If you receive Canadian programs, you can block Canadian English and French V-Chip by ratings only. When you block a particular rating, you automatically block the higher-rated programs as well. To block Canadian English and French program ratings, follow these steps:

1. Select **Parental Control** > **Canada**, press **OK**/► to enter the next screen.

2. Press ▲/▼ to select "**Canada Eng** or **Cannada Fre**". Press **OK**/► to proceed.

Canadian English Ratings

C	Children
C8+	Children 8 and older
G	General audience
PG	Parental guidance
14+	Viewer 14 and older
18+	Adult

Canadian French Ratings

G	General Audience
8 ans+	Viewer 8 and older
13 ans+	Viewer 13 and older
16 ans+	Viewer 16 and older
18 ans+	Adult

3. Press ▲/▼ to select the desired rating, and press **OK** to block or unblock it.

RRT Setting: Allows you to select the downloadable rating level. In the event that a new rating system is provided by the broadcaster, the new rating options would appear within this menu.

Reset RRT: Reset to the default RRT setting.

Unrated

The Unrated Ratings option lets you decide if programs that the V-Chip recognizes as unrated or exempt can be viewed. Unrated TV programs may include news, sports, political, religious, local programs, weather programs, emergency bulletins, public announcements, and other programs without ratings. The Exempt option applies to both US and Canadian unrated programs and Canadian programs rated E.

1. Select "**Parental Control**" > "**Unrated**".

2. Press ◄/► to toggle between **View** and **Block**.

   View All unrated programs are available.

   Block All unrated programs are not available.

Keyboard Lock

This option allows you to block (disable) or unblock (enable) the buttons on the back of the TV, also known as the "keyboard." The remote will still tune to any channel entered. If you are using this to keep children from changing channels, be sure to remove access to any and all remotes that are capable of operating the TV while you have the keyboard blocked. To block the keyboard buttons, select "**Parental Control** > **Keyboard Lock**", and press ◄/► to choose the "Block" option. To enable these buttons again, return to this menu and choose the "UnBlock" option.

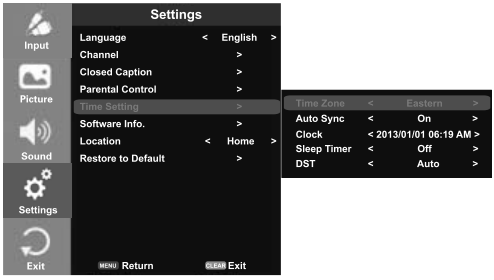
Clear All

This option resets all settings (including parental control settings) to the factory defaults. When you select this option, a confirmation window will appear.

Time Setting

Time Zone: You can set the correct Time Zone for your area.

Auto Sync: Press ◄/► to choose On to acquire the time automatically from digital channels.



1. Select "**Settings** > **Time Setup** ", press **OK**/ ► to proceed to the next screen.

2. Options on this screen include:

   Clock: Only available when "Auto Synchronization" is set to "Off". Select "Clock" and press **OK** to enter, set the following time items:

   Year: Press ▲/▼to select "Year", press ◄/► to set the year. Follow the same steps to set "Month, Day, Hour, Minute." PM/AM will change automatically when you set the time.

Sleep Timer: Press ◄/► to set the TV to turn off after a given amount of time.

DST (Daylight Saving): Select Auto to set the Daylight Savings Time for your area automatically.

Software Info.

This option allows you to see the software information such as software version, build time, panel and tuner information.

Location

This option allows you to select the desired location setting. Only "Home mode" is ENERGY STAR® compliant.

Restore to Default

This option resets all settings (except parental lock settings) to the factory defaults.

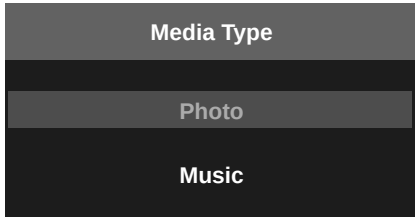
1. Select "**Settings** > **Restore to default**", Press **OK**/► to enter
2. Enter your password before proceeding to the next step.
3. Press ◄/► to select "Confirm" and press **OK** to confirm to reset all settings.

USB Menu

You can connect a device with USB to your TV or use a USB flash drive (only FAT, FAT32 and NTFS formatted USB devices are supported). This connection allow you to insert a USB flash drive directly or connect a compatible mass storage device with USB, such as a digital camera, a multi-format card reader, or an MP3 player. If you have a USB drive, plug it into the drive directly. If you have a device with a USB port, connect one end of the USB cable to the USB port and the other end to the USB jack on the side of the TV.

The USB feature on your TV allows you to play audio files or display pictures. To utilize this feature, follow these steps:

1. Press **MENU** to display the menu screen.
2. Use ▲/▼ to select "INPUT".



3. Press **OK**/► to proceed.
4. Press ▲/▼ ◄/► to select "USB" then press **OK** to enter or press the **MEDIA** button to access the menu directly.
5. Press ▲/▼ to select the "Media Type"- Photo or Music. Then press **OK** to proceed.
6. Select the connected disk and/or device then press **OK** to enter.
7. Press ▲/▼ ◄/► to select files. If selecting a photo or music file, press **OK** to display or play. If selecting a file folder, press **OK** to

enter and press ▲/▼ ◄/► to select a file and press **OK** to display or play.

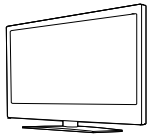
8. While displaying photos or playing music, adjust as you like according to the operation guide icon on the bottom of the screen.

9. Press **CLEAR** to return to previous menu. Press **BACK** to exit USB.

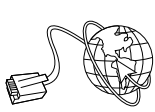
***Note: The USB function can only be used for photos or music. Other data will not be recognized. To play other content such as movies or videos from a USB flash drive, connect it to your computer then connect the computer to your TV.**

CHAPTER 3. ROKU® SETUP

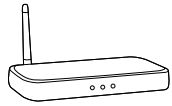
What you need



OVIVO™
55" ARES 4K UHD TV

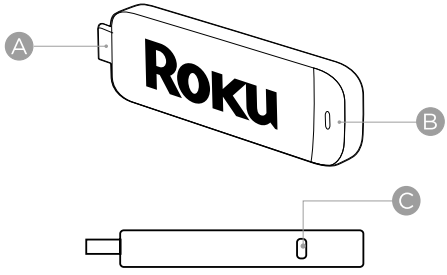


High speed Internet



Wireless Router

Know your Roku Streaming Stick



A.[MHL CONNECTOR]
Plugs into the MHL port on the back of your TV.

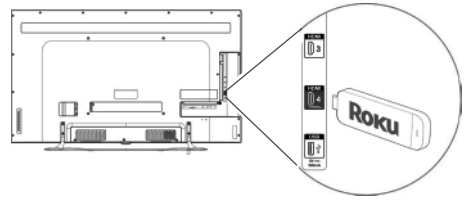
B.[STATUS LIGHT]
Signifies it is on when lit, or activity when flashing.

C. [RESET BUTTON]
Used to reset your Streaming Stick.

Initial Setup

Plug the Roku Streaming Stick into the MHL port on the back of the TV.

Now press the ROKU home button ( ) on the remote to jump right into the guided setup on the screen.



***Note: The initial setup may take up to 1min to turn on.**

Connect to network

Have your network name and password ready to do the following:

- Select your network from the list of available networks.
- Enter your network password, if you use one. Remember, network passwords are case sensitive.

Complete guided setup

It's the final strech and hooray--it's a breeze! Continue following the on-screen instructions and you'll:

- Get the latest software.
- Link the Roku Streaming Stick to your Roku account on your computer.

Your Roku account: During setup, you'll be prompted to create your Roku account online at **roku.com/link**. Your Roku Streaming Stick will generate a unique code that links your player to your new account. Roku accounts are free and secure. And while a valid credit card number is required to create your account, rest assured you will only be charged if you authorize purchases of channels and games from the Roku Channel Store.

Troubleshooting for your ROKU® SETUP

If you cannot see a picture on your TV:

- Make sure your TV is turned on.
- Press the ROKU Home button on the remote to jump right in the the guided Roku setup on the screen.

If you cannot connect to your wireless home network during guided setup:

- Make sure there are no obstructions, like cement walls, between your Roku Streaming Stick and your wireless router. It's highly suggested to adjust the location of your wireless router in a good signal range from your Roku Steaming Stick.
- Make sure you select the correct wireless router name on the "Wireless" screen.
- Make sure you enter the correct password, if your network is security-enabled (password is case sensitive).
- If you have turned off SSID broadcasting on your wireless router, you can add your network by selecting "My network is not shown" from the "Wireless" screen.

If you cannot hear sound:

- Make sure the connectors on the cables between your TV are fully connected.
- Make sure the volume on your TV or connected device is turned up and isn't on mute.
- Make sure the input on your TV matches the output (HDMI or MHL) used with your Roku Streaming Stick.

Safety Precautions

The Streaming Stick has been designed with the highest concern for safety. However, any electrical device, if used improperly, has the potential to cause fire, electrical shock, or personal injury. To help ensure accident-free operation, follow these guidelines:

- Observe all warnings, precautions, and instructions.
- Stop use, unplug the device that the Streaming Stick is inserted into from the electrical outlet and disconnect any other cables immediately if the Streaming Stick or the device functions in an abnormal manner, produces unusual sounds, or becomes too hot to touch.
- For more information on product safety and troubleshooting, please go to **www.roku.com/support**.

Use and Handling

- When playing video games, use in a well-lit area and stand or sit as far away from the screen as possible.

  Note: Roku Streaming Stick (Roku Ready Version) Enhanced Game Remote is sold seperately.

- Take a 10-15 minute break every hour if playing video games and avoid prolonged use of the remote.
- Stop playing video games if you begin to feel tired or if you experience discomfort or pain in your hands or arms while operating the remote. If the condition persists, consult a doctor.
- If you experience any of the following health problems, discontinue use of the Streaming Stick immediately:

  -Dizziness, nausea, fatique or symptoms similar to motion sickness.
  -Discomfort or pain in a part of the body, such as eyes, ears, hands, or arms. If symptoms persist, consult your physician.

- Keep the Streaming Stick and any accessories, including the remote, out of the reach of small children.
- Do not touch the Streaming Stick during an electrical storm.
- Do not allow liquid, small particles or other foreign to get into the Streaming Stick or accessories.
- Do not expose the Streaming Stick to smoke or steam.
- Do not expose the Streaming Stick or accessories to high temperatures, high humidity or direct sunlight.

Roku Streaming Stick™ The License Agreement

The Roku and third-party software license terms can be found at: **www. roku.com/license**. Use of the Roku Streaming Stick ("**Streaming Stick**") constitutes acceptance of as well as agreement to those license terms.

Roku Streaming Stick™ One (1) Year Limited Hardware Warranty

Subject to the additional terms and conditions set forth below, Roku provides this Limited Warranty:

- Only to the person or entity that originally purchased the Streaming Stick from Roku or from one of its authorized re-sellers or distributors; and
- Only for Streaming Stick purchased and delivered to the end user within the United States and Canada.

Limited Warranty

Roku warrants the Streaming Stick hardware against defects in materials and workmanship under normal use for a period of one (1) year from the date of purchase ("Warranty Period").

If Roku determines that the Streaming Stick's hardware is defective, Roku will either repair the unit or replace the unit with either a new or rebuilt Streaming Stick, at the company's discretion. If the Warranty Period has expired or is otherwise not applicable, we will return the Streaming Stick to you. More information about this warranty can be found at **www.roku.com/support**. THE FOREGOING SETSFORTH ROKU'S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY IN THE EVENT OF ANY BREACH OF THIS LIMITED WARRANTY.

Need more help?

Check out the FAQs, instructional videos, and user forums on **www.roku.com/support**.

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CHAPTER 4. OTHER INFORMATION

Frequently Asked Questions (FAQs)

Q. What's the quickest way to view High Definition (HD) programming?

A Connect an off-air antenna to the ANT/CABLE INPUT to view free local digital channels. You may need to purchase an antenna. Visit www.antennaweb.org for assistance in deciding what type of antenna to use to receive the local digital channels available to you. By entering your location, this mapping program tells you which local analog and digital stations are available using a certain antenna.

Q. Are there other ways to view High Definition (HD) programming?

A Besides using an off-air antenna as mentioned above, you can also use a set-top box or digital cable box to receive digital video. Contact your cable company provider to purchase digital programming service and have them connect the box to ensure you are viewing channels in the best way possible.

Q. How do I tell an analog channel from a digital channel?

A Press the INFO button to display the Channel Banner. If a dot (•) is displayed on the screen, then it is a digital channel. If there is no dot, it is an analog channel.

Q. Why are there bars on my screen and how can I get rid of them?

A Most digital programs are sent in a 16:9 format which fills your screen, but are sometimes sent in 4:3 which does not fill your screen. The format depends on how the station or device connected to your TV is formatting the content. If there are bars on the screen, press the **ZOOM -/+** button to try a different format that may eliminate the bars. Some bars can't be removed because of the way the format is sent by the broadcaster. The format changes as you press the **ZOOM -/+** button and the format type is displayed at the bottom of the screen.

Q. Why does channel search find a lot of channels, but when I try to tune to them, there's nothing there?

A Some channels enabled by the cable company don't carry programming, such as video-on-demand or the signal is too weak to display properly. When channels are unavailable, your TV screen is blank or appears like snow. You may want to remove these channels from your Channel List. Remove these in the Channel Skip Menu.

Q. Why does the first channel search take a long time?

A If you have both analog and digital channels, the TV is looking for all available channels in the Channel List. If you do have digital channels, the TV is also searching for scrambled channels, non-scrambled channels, and each sub-channel of that digital channel.

Q. Why is my picture quality poor?

A Use the HDMI connections on your TV to display the best picture quality. However, even when using HDMI, your content and content source will still dictate the picture quality you see. For example, source content that is1080p will show better than 720p or 480p.

Troubleshooting

Most problems you encounter with your TV can be corrected by consulting the following troubleshooting list.

Problems	Solutions
The TV won't turn on.	• Make sure the TV is plugged in. • Check the wall receptacle (or extension cord) to make sure it is "live" by plugging in another device. • The TV panel controls may be locked (disabled.) Use the remote control to unlock the TV panel controls. • Select the Button Block feature on the Parental Control menu and press **OK** to uncheck the box.
There is no picture and no sound, but the TV is on.	• You may be tuned to an input with no component connected to it. If you're trying to view a connected component, press **INPUT** until the picture from that component appears. • The Signal Type option may be set incorrectly. • The channel may be blank. Try changing channels. • If you're watching your VCR and it's connected with a coaxial cable to the **ANT/CABLE INPUT** jack, tune the TV to channel 3 or 4 (whichever channel is selected on the 3/4 switch on the back of your VCR.) Also make sure the TV/VCR button on the VCR is in the correct mode (press the TV/VCR button on your VCR.)

Problems	Solutions
The sound is fine, but the picture is poor quality.	• If you're getting a black and white picture from a component you've connected to your TV, you might have your video cables connected to the wrong jacks. A yellow video cable connects to the yellow VIDEO INPUT jack on the side or back of your TV; three video cables or bundled component video cables (red, blue, and green) connect to the corresponding COMPONENT INPUT jacks on the back of your TV. • Check the antenna connections. Make sure all of the cables are firmly connected to the jacks.
There is no sound, but the picture is fine.	• The sound might be muted. Try pressing the volume up button to restore sound. • If using DVI or Y, PB, PR, remember to also connect the device's left and right audio output jacks to the TV's L and R AUDIO INPUT jacks. • The sound settings may not be set correctly.
The screen is blank.	• Check your connections. If you used yellow, red, and white cables connection, make sure they're connected to the yellow, red, and white AUDIO/VIDEO INPUT jacks on the side or back of the TV. • If you're trying to watch something that's playing on a component connected to the TV (like a DVD), press INPUT until you get to the correct video input channel. • Make sure the component connected to the TV is turned on. • Try another channel.
The buttons on the back of TV don't work.	• The TV keyboard may be locked (disabled.) Use the remote control to unlock the TV keyboard by selecting the Button Block feature in the Parental Control Menu and press ◄/► to uncheck the box. • Unplug the TV for 10 minutes and then plug it back in. Turn the TV on and try again.
The TV turns off unexpectedly.	• The electronic protection circuit may have been activated because of a power surge. Wait 30 seconds, and then turn the TV on again. If this happens frequently, the voltage in your house may be abnormally high or low. • Unplug; wait 10 minutes, then plug it in again.

Problems	Solutions
You can't select a certain channel.	• The channel may be blocked or not approved in the Parental Control Menu. • If using a VCR, check to make sure the TV/VCR button on the VCR is in the correct mode (press the TV/ VCR button on your VCR.) • Press the TV button and then try to change channels.
The stereo reception is noisy.	• This may be caused by a weak station. Use the Sound Menu and Analog TV Sound to choose mono.
A black box appears on the screen.	• Closed captioning might be on. Check Closed Caption in the Setup menu.
You are having problems with the HDMI Connection.	• Make sure the HDMI or DVI component is turned on and the cables are firmly connected. If problems still occur, turn off your component and reconnect it. Reset the power by unplugging the power cord and plugging it back in. • If you are tuned to HDMI 1 or another HDMI INPUT, and you're receiving the Unusable Signal message screen, press the INFO button on the remote. If "Acquiring Channel" appears in the Channel Banner, the HDMI or DVI device isn't responding. Contact the manufacturer of the HDMI or DVI device for further assistance. • If you tune to HDMI 1 or another HDMI INPUT, and you see snow, the video goes in and out, or the video takes a long time to appear, your HDMI or DVI component is having trouble sending video information to the TV. Reconnect your device. Reset the power by unplugging the power cord and plugging it back in. If problems persist, try connecting the Y Pb Pr jacks if they are available or contact the manufacturer of the HDMI or DVI component for further assistance. • If you have black bars on each side of your picture, the component you connected might have a switch or a menu option allowing you to change the picture quality output that will fix this. Choose either 720p or 1080i.
The remote control doesn't work.	• Something might be between the remote and the IR sensor on the front of the TV. Make sure there is a clear path. • The remote may not be aimed directly at the TV. • The batteries in the remote may be weak, dead, or installed incorrectly. Put new batteries in the remote.

Problems	Solutions
Your Universal Remote control doesn't work on this TV.	• This TV utilizes new remote control signals and may not be compatible with your existing universal remote (e.g. cable box remotes, and generic universal remotes, etc.). Over time, newer universal remotes and set-top box equipment will become available that should pick up the new TV codes.
You are experiencing problems with V-Chip/ Parental Controls.	• If the rating limits don't work, you must lock the settings. Go to the Main Menu (press **MENU** on your remote), select Parental Control > US > TV Rating, TV Rating is highlighted. Press ◄/► to select **On** to have the rating limits take effect.
What else can I do?	If you've been through the Troubleshooting section and nothing has fixed your problem, try rebooting your TV. Note that after a reboot, you may need to run your TV through the setup process again. To do a reboot: 1. Unplug the power cord from the wall outlet or power strip. 2. Keep your TV unplugged for about 5 minutes. 3. Then plug in the TV and turn it on. If the problem remains after reboot, then please visit www.ovivo.tv for updated FAQs or contact OVIVO Customer Support's toll-free number: 1-888-826-1638.

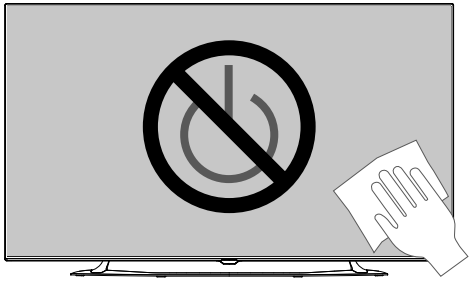
Battery Caution & Disposal Information

1. For best results, use alkaline type batteries.
2. Install only new batteries of the same type in your product.
3. Failure to insert batteries in the correct polarity, as indicated in the battery compartment, may shorten the life of the batteries or cause batteries to leak.
4. Do not mix old and new batteries.
5. Do not use rechargeable (nickel cadmium) or (nickel metal hydride) batteries.
6. Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel cadmium) or (nickel metal hydride) batteries.
7. Do not dispose of batteries in fire.
8. Batteries should be recycled or disposed of as per state and local guidelines.

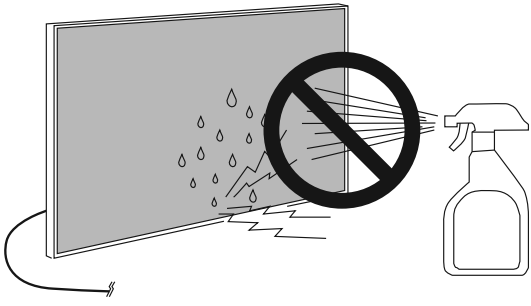
Care and Cleaning

Caution: Turn OFF your TV before cleaning.

Clean the TV as needed, using a soft lint-free cloth such as microfiber. Be sure to occasionally dust the ventilation slots at the back of the TV to help assure adequate ventilation.



IMPORTANT: Never use strong cleaning agents as these types of cleaners will damage the TV screen. The TV's screen may be cleaned with a soft material and non-abrasive cleaners. The rest of the components including the TV stand cannot come in contact with any kind of cleaner or liquid, even water. While cleaning, do not spray liquid directly on the screen, or allow liquid to run. Also, never place drinks or vases with water on top or near the top of TV. This could increase the risk of fire, shock hazard, or damage to the TV.



Television Specifications

Broadcasting system	US System NTSC-M
	ATSC standard (8VSB), QAM
Receiving Channels	VHF2-13
	UHF14-69
	CATV 14-36 (A)-(W)
	37-59 (AA)-(WW)
	60-85 (AAA)-(ZZZ)
	86-94 (86)-(94)95-99 (A-5)-(A-1)
	100-135 (100)-(135)
	01 (4A)
Tuner type	Frequency synthesized
Operating Temperature	5°C to 35°C (41°F to 95°F)
Operating Humidity	20% to 80%,non-condensing
Storage Temperature	-15°C to 45°C (5°F to 113°F)
Storage Humidity	10% to 90%,non-condensing

This product incorporates HDMI technology.
HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Plug in an MHL-compatible mobile device to view your favorite content and charge your device at the same time. MHL, the MHL logo are trademarks or registered trademarks or service marks of MHL LLC in the United States and other countries.

ENERGY STAR is a set of power-saving guidelines issued by the U.S. Environmental Protection Agency (EPA).
ENERGY STAR is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are registered trademarks of Dolby Laboratories.

Each Roku Ready TV has been tested and certified by Roku engineers to ensure the Roku Ready badge meets our award winning standards. Plug the Roku Streaming Stick (Roku Ready Version) into the MHL port of your TV and you've got the best streaming experience in the world—totally integrated with your TV.

FCC Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

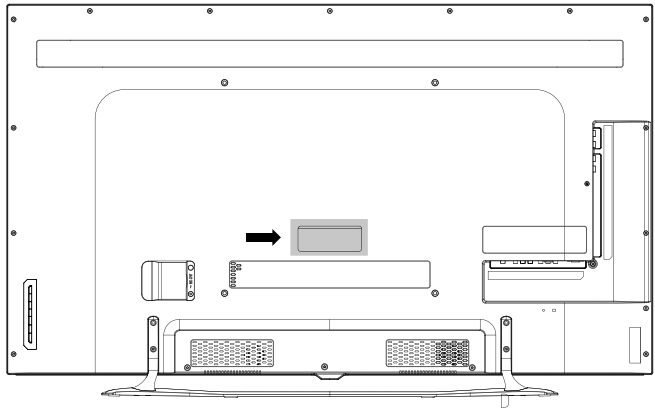
(2) this device must accept any interference received, including interference that may cause undesired operation.

Please do not send any products to the California address listed in this manual or on the carton. This will only add delays in service for your product.

Figures and illustrations in this User's Guide are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

Location of the identification label

Labels for the Model No. and Power Supply rating are located on the rear of the TV.



IMPORTANT NOTICE:

- ***The figures and illustrations used in this manual are provided for reference only and may differ from the displays accessible within actual product.***

- ***Retain this manual for future reference.***

OVIVO Customer Support
www.ovivo.tv
1.888.826.1638

Roku Customer Support
support.roku.com
1.888.600.7658

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